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Snowflake SOL-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Data Protection and Data Sharing: This domain addresses continuous data protection through Time Travel and cloning, plus data collaboration capabilities via Snowflake Marketplace and private Data Exchange sharing.
Topic 2	<ul style="list-style-type: none">• Interacting with Snowflake and the Architecture: This domain covers Snowflake's elastic architecture, key user interfaces like Snowsight and Notebooks, and the object hierarchy including databases, schemas, tables, and views with practical navigation and code execution skills.

Topic 3	<ul style="list-style-type: none"> Identity and Data Access Management: This domain focuses on Role-Based Access Control (RBAC) including role hierarchies and privileges, along with basic database administration tasks like creating objects, transferring ownership, and executing fundamental SQL commands.
Topic 4	<ul style="list-style-type: none"> Data Loading and Virtual Warehouses: This domain covers loading structured, semi-structured, and unstructured data using stages and various methods, virtual warehouse configurations and scaling strategies, and Snowflake Cortex LLM functions for AI-powered operations.

Snowflake Certified SnowPro Associate - Platform Certification Sample Questions (Q10-Q15):

NEW QUESTION # 10

A company uses Snowflake Cortex's CLASSIFY TEXT to categorize product reviews. They want to track the daily distribution of reviews across different categories ('Positive', 'Negative', 'Neutral'). They need to create a robust and efficient solution for reporting on this trend. Which of the following approaches offers the best combination of performance, maintainability, and cost- effectiveness? Select two options.

- A. Directly query the raw product reviews table with CLASSIFY _ TEXT and group by date and category in a reporting dashboard. This avoids any data warehousing steps.
- B. Create a scheduled task that runs daily, classifies the new reviews using CLASSIFY TEXT, and inserts the results into a summary table with daily counts for each category.
- C. Create a stored procedure that performs the classification and updates a summary table. Call this stored procedure directly from the reporting dashboard whenever the dashboard is refreshed.
- D. Create a stream on the product reviews table and a task that is triggered by the stream. The task classifies the new reviews and updates a materialized view that contains the daily counts.
- E. Reclassify all product reviews every night, overwriting the classification categories in a reporting dashboard.

Answer: B,D

Explanation:

Options A and B offer the best balance. Option A provides scheduled execution and summary data, enabling efficient reporting. Option B uses streams and tasks to incrementally update a materialized view, which is also efficient and reduces processing time. Option C is inefficient because it performs the classification on every dashboard refresh. Option D has a similar problem as C. Option E leads to data overwriting.

NEW QUESTION # 11

You are using a Snowflake Notebook to perform data analysis on a large dataset. As part of your analysis, you need to create a custom Python function that calculates a complex metric based on multiple columns in a Snowflake table.

You want to apply this function to each row of the table and store the results in a new column.

Which of the following approaches is the MOST efficient and scalable way to achieve this using Snowflake and Python?

- A. Use the '%osql' magic command to execute a series of SQL UPDATE statements that call the Python function using a IJDF.
- B. Load the entire Snowflake table into a Pandas DataFrame, apply the Python function to each row using 'DataFrame.apply()', and then write the modified DataFrame back to Snowflake.
- C. Create a Snowflake Python User-Defined Function (UDF) that encapsulates the calculation logic and then use it in a 'SELECT statement to create a new column with the calculated values. Store the result in a new table using 'CREATE TABLE AS SELECT'
- D. Iterate over the rows of the Snowflake table using the Snowflake Connector for Python, call the Python function for each row, and then use "INSERT statements to insert the calculated values into a new table.
- E. Create a stored procedure in Snowflake that runs the logic in a separate environment.

Answer: C

Explanation:

Option C, creating a Snowflake Python IJDF and using it in a 'SELECT statement within a 'CREATE TABLE AS SELECT statement, is the most efficient and scalable approach. Snowflake IJDFs allow you to execute Python code directly within the Snowflake engine, leveraging Snowflake's distributed processing capabilities. This avoids the

overhead of transferring large amounts of data between Snowflake and the Python environment in the Notebook. Loading the entire table into a Pandas DataFrame (A) is not scalable for large datasets and can lead to memory issues. Using '%osql' with 'UPDATE statements (B) would be very slow due to the row-by-row updates. Iterating over rows using the Snowflake Connector (D) is also inefficient and not scalable. Option E is incorrect because it doesn't directly use Python code from the Notebook.

NEW QUESTION # 12

You are using Snowsight to monitor a data pipeline that involves several tasks chained together using 'AFTER' dependencies. One of the intermediate tasks, is failing intermittently. Which of the following Snowsight features would be MOST helpful in quickly identifying the root cause of the failures and assessing the impact on downstream tasks?

- A. The data lineage feature in Snowsight to visualize the data flow and dependencies between the tables used by the pipeline.
- B. The role hierarchy page to see if the role executing the task has the correct privileges.
- **C. The task history view in Snowsight, focusing on the execution details, error messages, and query profiles for and its predecessor tasks.**
- D. The Snowsight worksheet interface, by running SELECT statements on the underlying data in the tables involved.
- E. The Resource Monitor page to see if warehouses are being over utilized and impacting all workloads.

Answer: C

Explanation:

The task history view in Snowsight provides specific information about the execution of each task, including error messages, query profiles, and execution times. This allows you to pinpoint the cause of the failure in and examine the history of predecessor tasks to identify any upstream issues. The Task details page shows which tasks were executed after the specific task. While data lineage (Option C) is helpful for understanding data flow, it doesn't directly show execution details. Option A (worksheets) is a general debugging tool but not the most efficient for task- specific issues. Options D and E might be relevant but are less direct than examining the task history.

NEW QUESTION # 13

Which of the following is a key feature of Snowflake's Data Storage Layer? (Select 2 options)

- A. In-memory storage
- B. Elastic Cloud
- **C. Elastic storage**
- **D. Internal optimized, compressed, columnar format**

Answer: C,D

Explanation:

The Data Storage Layer in Snowflake stores all data in a compressed, encrypted, columnar format designed for analytical efficiency. Snowflake automatically reorganizes ingested data into micro-partitions optimized for pruning and high-performance scans. The compression and structuring are fully automated, requiring no tuning or indexing by the user.

Another foundational feature is elastic storage, made possible by Snowflake's cloud-native architecture.

Storage automatically scales up or down based on data volume without user intervention, and is separated from compute. This ensures cost efficiency and immediate availability of capacity for large datasets.

Incorrect options:

- * In-memory storage is not a Snowflake feature; long-term data is persisted in cloud object storage.
- * Elastic Cloud is not a Snowflake architectural term.

The Data Storage Layer is designed for durability, scalability, and optimal query performance.

NEW QUESTION # 14

What is the SHOW GRANTS SQL command primarily used for?

- **A. To display all privileges granted to a role or user.**
- B. To list all active users in the account.
- C. To view the history of data loads.
- D. To show current warehouse credit usage.

Answer: A

Explanation:

SHOW GRANTS lists privileges assigned to roles, users, objects, or shares. It is essential for permissions auditing and RBAC management.

SHOW USERS lists users, not privileges.

Warehouse usage is in ACCOUNT_USAGE views.

Load history is retrieved via COPY_HISTORY or LOAD_HISTORY.

NEW QUESTION # 15

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